HS-200
Water Treatment System
61301605522

APPLICATION
Today's ever-changing water quality issues demand that point-of use water treatment systems become an essential component of equipment applications. Because municipal water treatment facilities are designed to reduce mainly biological contaminants, they do not decrease contaminants that affect the performance of water dependent equipment. The Watts HS-Series water treatment systems are designed specifically for use on applications found throughout the healthcare industry, such as point-at-use steam generators. When used as suggested by the manufacturer, The Watts HS-Series water treatment systems significantly reduce or eliminate boiler scaling. This unit is intended for use with a single sterilizer/electric boiler combination – with boilers in the range of 12 to 30 KW.

BENEFITS
- Extends equipment life
- No electrical service needed
- Reduces or eliminates boiler scale
- Increases boiler heating element life and efficiency
- Universal mounting system for quick, easy installation
- Small size (24”x16”x20”) permits installation virtually anywhere
- Attractive stainless steel cabinet

EQUIPMENT FEATURES
- Complete pre-treatment
- Sediment filtration removes dirt, sand, and rust
- KDF media filter reduces iron
- Carbon filtration removes chlorine and other VOCs
- TFC reverse osmosis membrane reduces up to 99% of TDS
- Complete post-treatment
- PH adjusted
- TDS balanced to ensure proper conductivity of water
- 1-year warranty
- Factory performance tested and sanitized

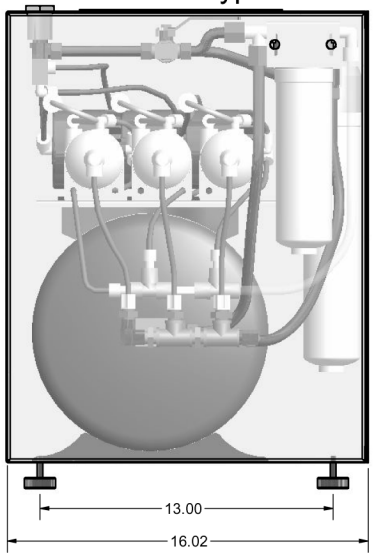
SYSTEM PERFORMANCE
When used as suggested by the manufacturer, the Watts HS-Series water treatment systems eliminate up to 99% of the following contaminants:
- Total Dissolved Solids(TDS)
- Volatile Organic Chemicals
- Harness(CaCO3)
- Chlorine additives

Note Limitation: Not intended for drinking water.

WARRANTY
Watts HS-Series water treatment systems are warranted for One year. Labor for repairs are provided for the first 90/days following equipment installation and start up. Warranty repairs are performed Monday-Friday from 8:00a.m. - 5:00p.m., Excluding national holidays.

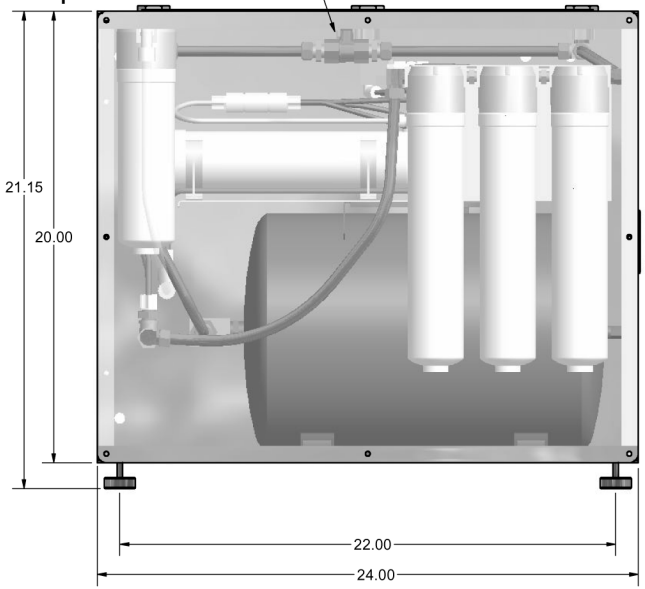
To order an HS-Series Water Treatment System or for more information, please call:
Phone: 800-950-9912
Fax: 800-950-2570
Getinge USA Inc,
1777 East Henrietta Rd.
Rochester, NY 14623

LEFT SIDE B



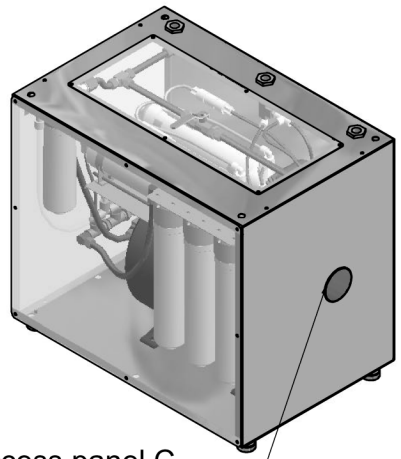
FRONT (ACCESS PANEL SIDE) A

Manual bypass valve for rapid start / boiler fill.



NOTES:

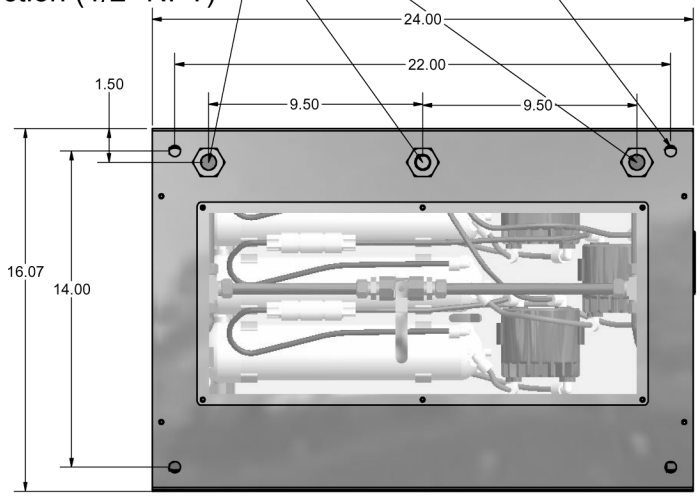
1) INLET WATER: Must be potable
2) CONNECTIONS: In view "D" #1, #2 & #3 are 1/2" NPT; "L" grade copper with flaired fittings required.
3) PRESSURE: Min. 40 psig, max 85 psig. A pressure regulator P/N 134030 will be required if over 85 psig.
4) PH RANGE: 4-7 ppm.
5) HARDNESS: Maximum 10 grains
6) TEMPRATURE: Min 40 deg. F max 100 deg. F
7) TDS: Maximum 1200 ppm
8) PREVENTITIVE MAINTENANCE: First year preventative mainenance kit included. (P/N 501020)
9) CLEARANCE: Minimum 18" service clearance on sides C & D, Minimum 35" on side A.
10) FLOOR DRAIN REQUIREMENTS: Min. 1/2" dia. within 10' of processing unit.
11) Pretreatment: Q/C series sediment 5 micron (P/N 107021, Qty 1), Q/C series carbon block 10 micron (P/N 101011, Qty 1), Q/C series GAC/KDF 1/2 lb (P/N 107024, Qty 1).
12) Post Treatment: Q/C series calcite 1202 (P/N 307020, Qty 1)



Right side air valve access panel C tank needs to be empty when charging to the required 15 psig

Feed water connection (1/2" NPT)
Concentrate water connection (1/2" NPT)
Permeate water connection (1/2" NPT)

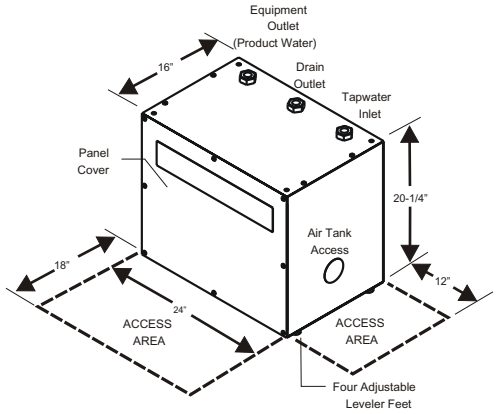
Holes for ceiling mount (4 places) 3/8" thread stock with washer and lock nuts required



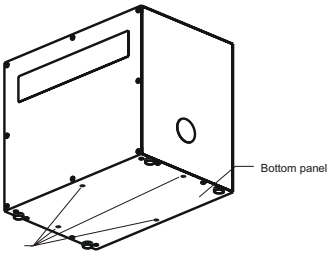
TOP VIEW (ACCESS PANEL) D

DRAWN Craig Schmitt	7/8/2003	**Watts Pure Water, Phoenix, AZ USA**	
CHECKED		TITLE	
QA		**HS-200**	
MFG			
APPROVED		SIZE C	DWG NO **570200**
		SCALE	SHEET 1 OF 1

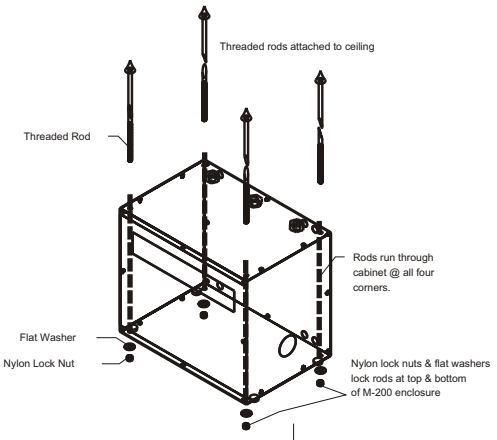
REV 1/6/2004

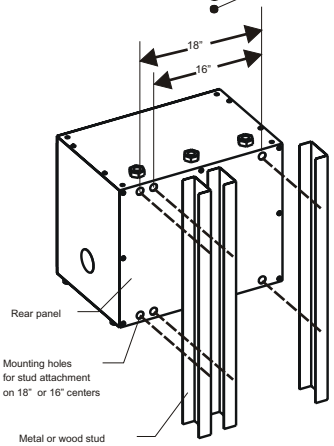


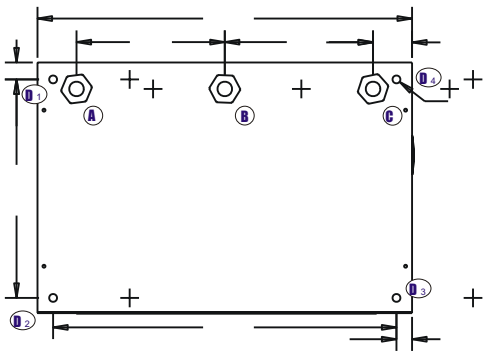
NOTE:
Need access to front panel and right side "Air Tank Access Cap" .
Recommended:
Front Panel Access - 18" clearance
Side Panel Access - 12" clearnace

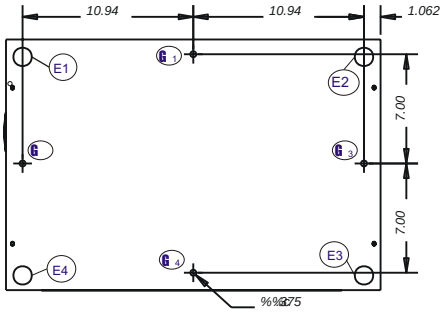


California Code requires four sizemic mounting holes for floor attachment

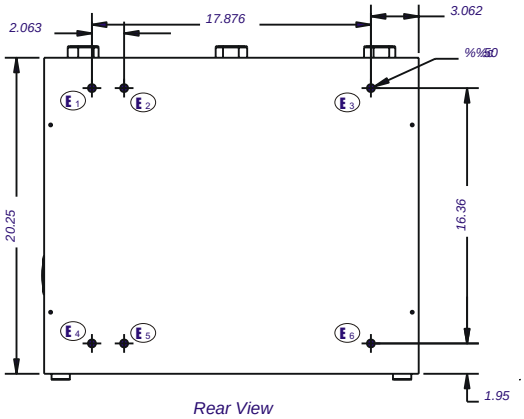




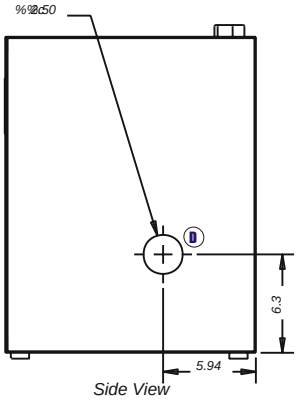




Bottom View

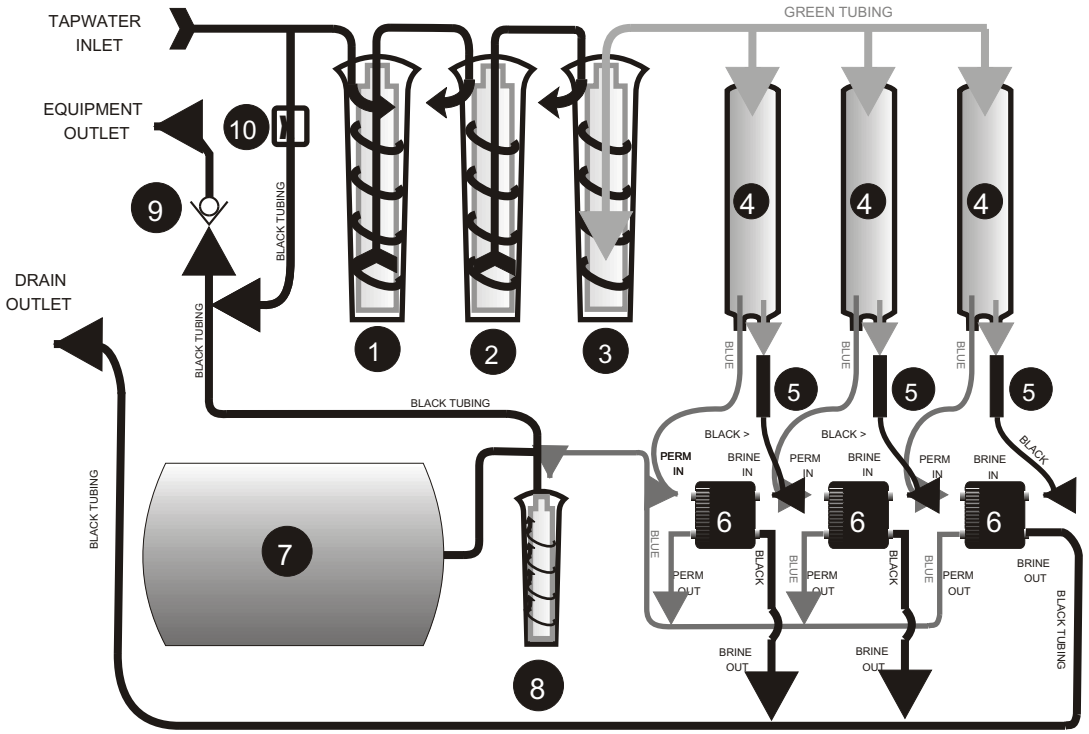


Rear View



Side View

	NAME	DATE	DO NOT SCALE DRAWING		TITLE: M-200 BoilerMate	
DRAWN	NELSON A.	7/18/02	WEIGHT: 77 LBS			
ENG.	SCHMITT C.	7/18/02			DWG NO. M-200-1	A2
PROD.	HENSS M.	7/18/02			MATERIAL: 304 Stainless Steel	
SALES	HANFORD J.	7/18/02			REVISION 7/15/02	
Q.A	MANGIN P.	7/18/02				



ITEM	PART NUMBER	DESCRIPTION
1	107021	5 MICRON SEDIMENT FILTER
2	107024	GAC/KDF
3	101011	10 MICRON CARBON BLOCK
4	210000	MEMBRANE TFM 100 GPD
5	222019	750 ML FLOW RESTRICTOR
6	152002	PERMEATE PUMP WITH CLIP
7	219002	PRESSURE TANK
8	307020	ALL CALCITE
9	234010	1/2" BRASS CHECK VALVE
10	134028	1/2" BY PASS VALVE

	ON UNIT CONNECTION	SIZE	APPROVED MATERIAL
A	PERMEATE WATER TO BOILER	1/2" FPT	1/2" L COPPER (SWEAT OR FLAIR)
B	DRAIN WATER CONNECTION	1/2" FPT	1/2" L COPPER/PVC/POLY PROPYLENE
C	INLET "COLD" WATER CONNECTION	1/2" FPT	1/2" L COPPER/PVC/POLY PROPYLENE
D	AIR TANK ACCESS	2 1/2" OPENING	TIRE PRESSURE GAUGE 0-50 PSI RANGE

	MOUNTING LOCATION	SIZE	APPROVED MATERIAL
D1-D4	CEILING MOUNT (TOP PANEL)	3/8"	THREADED STOCK
E1-E4	CEILING MOUNT (BOTTOM PANEL)	3/8"	THREADED STOCK
H1-H6	WALL MOUNT	3/8"	5/16" X 2 1/2"
G1-G4	FLOOR MOUNT	3/8"	LEG GUIDE (PROVIDED)/HILTI
G1-G4	FLOOR MOUNT FOR SEISMIC STATES	3/8"	HILTI ANCHORS (3/8" X 3 1/2")

	NAME	DATE	DO NOT SCALE DRAWING
DRAWN	NELSON A.	7/18/02	WEIGHT: 77 LBS
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PROD.	HENSS M.	7/18/02	
SALES	HANFORD J.	7/18/02	
Q.A	MANGIN P.	7/18/02	

TITLE: M-200 BoilerMate

DWG NO. M-200-1

A1

MATERIAL: 304 Stainless Steel

REVISION 7/15/02

Model HS-200 Boiler Mate # 570200 Replacement Parts

Item #	Item Description	Qty per unit
61301605453	Permeate Pump	3
61301605455	Membrane Filter	3
61301605473	Flow Restrictor 750 ml	3
61301605471	5 Gal Storage tank	1
61301605449	Filter Sediment 5 micron	1
61301605447	Filter Carbon Block 5 micron	1
61301605450	Filter GAC/KDF	1
61301605516	Filter Calcite	1
61301605476	Valve Check 1/2" Brass	2
61301605474	Valve Ball 1/2" Brass	1
61301605518	HS-200 Unit PM Kit	1